



Datasheet for ABIN668961  
**anti-NF-kB p65 antibody (AA 51-100)**



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8 Images

30 Publications

### Overview

Quantity:	100 µL
Target:	NF-kB p65 (NFkBp65)
Binding Specificity:	AA 51-100
Reactivity:	Human, Mouse, Rat, Cow, Zebrafish (Danio rerio), Rabbit, Chicken
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NF-kB p65 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human NFkBp65
Isotype:	IgG
Cross-Reactivity:	Chicken, Cow, Human, Mouse, Rabbit, Rat, Zebrafish (Danio rerio)
Predicted Reactivity:	Dog,Cow,Pig
Purification:	Purified by Protein A.

### Target Details

Target:	NF-kB p65 (NFkBp65)
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## Target Details

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Alternative Name: NFKB p65 ([NFkBp65 Products](#))

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Background: Synonyms: p65, NFKB3, Transcription factor p65, Nuclear factor NF-kappa-B p65 subunit, Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3, RELA

Background: NF-kappa-B is a pleiotropic transcription factor present in almost all cell types and is the endpoint of a series of signal transduction events that are initiated by a vast array of stimuli related to many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p15, NFKB1/p5, REL and NFKB2/p52 and the heterodimeric p65-p5 complex appears to be most abundant one. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-B heterodimeric p65-p5 and p65-c-Rel complexes are transcriptional activators. The NF-kappa-B p65-p65 complex appears to be involved in invasin-mediated activation of IL-8 expression. The inhibitory effect of I-kappa-B upon NF-kappa-B the cytoplasm is exerted primarily through the interaction with p65. p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappa-B complex. Associates with chromatin at the NF-kappa-B promoter region via association with DDX1.

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Gene ID: 5970

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UniProt: [Q04206](#)

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Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#), [S100 Proteins](#)

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## Application Details

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Application Notes: WB 1:300-5000  
ELISA 1:500-1000

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## Application Details

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FCM 1:20-100  
IHC-P 1:200-400  
IHC-F 1:100-500  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

## Publications

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Product cited in: Fontana, Plaza-Díaz, Robles-Bolívar, Valente-Godínez, Sáez-Lara, Abadía-Molina, Gómez-Llorented, Gil, Álvarez-Mercado et al.: "Bifidobacterium breve CNCM I-4035, Lactobacillus paracasei CNCM I-4034 and Lactobacillus rhamnosus CNCM I-4036 Modulate Macrophage Gene Expression and Ameliorate Damage Markers in the Liver of ..." in: **Nutrients**, Vol. 13, Issue 1, (2021) ([PubMed](#)).

Oyagbemi, Omobowale, Ola-Davies, Asenuga, Ajibade, Adejumobi, Afolabi, Ogunpolu, Falayi, Ayodeji, Hassan, Saba, Adedapo, Yakubu: "Ameliorative effect of Rutin on sodium fluoride-induced hypertension through modulation of Kim-1/NF-κB/Nrf2 signaling pathway in rats." in: **Environmental toxicology**, Vol. 33, Issue 12, pp. 1284-1297, (2019) ([PubMed](#)).

Xu, Liu, Yu, Wu, Lu: "Effect of recombinant Trichinella spiralis cysteine proteinase inhibitor on

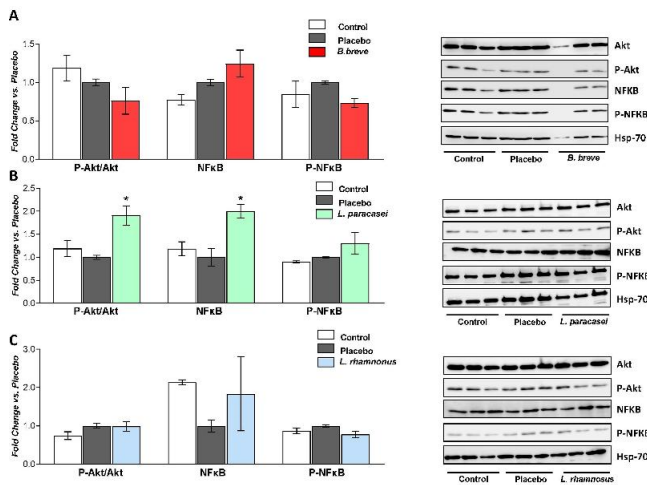
TNBS-induced experimental inflammatory bowel disease in mice." in: **International immunopharmacology**, Vol. 66, pp. 28-40, (2019) ([PubMed](#)).

Fattori, Borghi, Guazelli, Giroldo, Crespigio, Bussmann, Coelho-Silva, Ludwig, Mazzuco, Casagrande, Verri: "Vinpocetine reduces diclofenac-induced acute kidney injury through inhibition of oxidative stress, apoptosis, cytokine production, and NF-κB activation in mice." in: **Pharmacological research**, Vol. 120, pp. 10-22, (2018) ([PubMed](#)).

Sun, Nemoto, Hong, Sasaki: "Modulation of stromal cell-derived factor 1 alpha (SDF-1α) and its receptor CXCR4 in Porphyromonas gingivalis-induced periodontal inflammation." in: **BMC oral health**, Vol. 17, Issue 1, pp. 26, (2018) ([PubMed](#)).

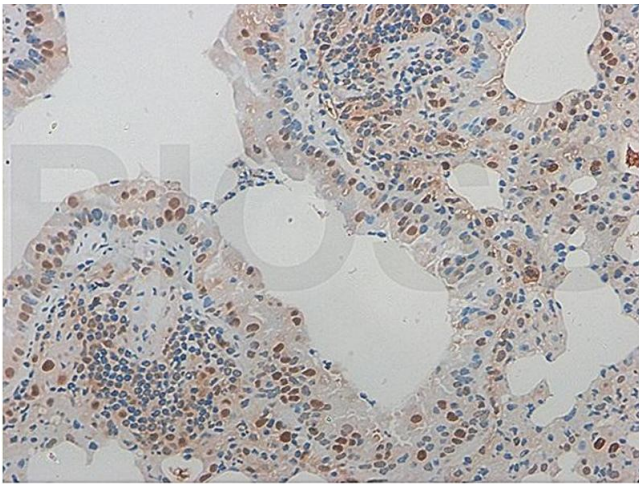
There are more publications referencing this product on: [Product page](#)

Validation report #104519 for Immunohistochemistry (IHC)



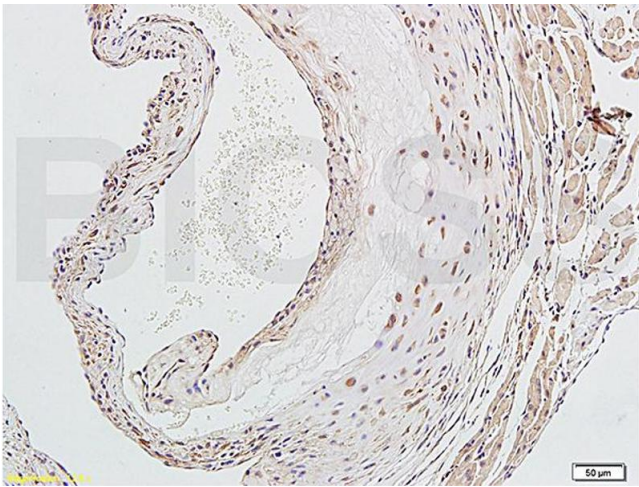
Western Blotting

**Image 1.** Western blot analysis of P-Akt/Akt ratio, NF-κB and P-NF-κB proteins of rats fed either placebo, (A) *B. breve*, (B) *L. paracasei* or (C) *L. rhamnosus* for 30 days. Hsp-70 was used as a loading control. Graphs on the left included 3 rats per group, and the right panels show representative blots. Values are the means ± SEM. \* p < 0.05 vs. placebo. Akt, protein kinase B, B, Bifidobacterium, Hsp70, 70 KD heat shock protein, L, Lactobacillus. NF-κB, nuclear factor kappa-light-chain-enhancer of activated B cells, P-Akt, phosphorylated protein kinase B, P-NF-κB, phosphorylated nuclear factor kappa-light-chain-enhancer of activated B cells. - figure provided by CiteAb. Source: PMID33440736



#### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin-embedded rat aortic tissue labeled with Rabbit Anti-NFKB p65 Polyclonal Antibody (ABIN668961), Unconjugated at 1:600 followed by conjugation to the secondary antibody and DAB staining



#### Immunohistochemistry

**Image 3.** Formalin-fixed and paraffin embedded human endometrium carcinoma labeled with Rabbit Anti-NFKB p65 Polyclonal Antibody (ABIN668961), Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining.

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN668961.